

## Second Grade Math Pacing Guide

### A Year at a Glance 2016 – 2017

Math Investigations Unit		Time Frame	CC Math Standards
Quarter 1	<b>Unit 1 – Counting, Coins, and Combinations</b> <i>Addition, Subtraction, and the Number System 1</i> <b>(27 Lessons, 27 Days)</b> <u>Investigation 1:</u> Introducing Math Tools and Routines – 5 Lessons <u>Investigation 2:</u> Counting and Coins – 8 Lessons <u>Investigation 3:</u> Combinations of Ten – 5 Lessons <u>Investigation 4:</u> Addition and Subtraction Situations – 9 Lessons *Additional lessons may be needed to address the meaning of the equal sign.	August 29 – October 5	2.OA.1, 2.OA.2 2.OA.4 2.NBT.2 2.NBT.4, 2.NBT.5 2.MD.8 2.MD.7, 2.NBT.9
	<b>Unit 3 – Stickers, Number Strings, and Story Problems</b> <i>Addition, Subtraction, and the Number System 2</i> <b>(24 Lessons, 25 Days)</b> <u>Investigation 1:</u> Adding More than Two Numbers – 6 Lessons <u>Investigation 2:</u> Addition and Subtraction – 8 Lessons (Additional lesson - Session 2.5A: Problems with Start Unknown) <u>Investigation 3:</u> Counting by 2s, 5s, and 10s – 4 Lessons (Combine Sessions 3.3 and 3.4, Omit Sessions 3.6 and 3.7) <u>Investigation 4:</u> Place Value – 6 Lessons	October 6 – November 10	2.OA.1, 2.OA.2 2.OA.3, 2.OA.4 2.NBT.1, 2.NBT.2 2.NBT.3, 2.NBT.4 2.NBT.5, 2.NBT.6 2.NBT.7, 2.NBT.8 2.NBT.9
Quarter 2	<b>Unit 6 – How Many Tens? How Many Ones?</b> <i>Addition, Subtraction, and the Number System 3</i> <b>(25 Lessons, 24 Days)</b> <u>Investigation 1:</u> Working with Tens and Ones – 4 Lessons <u>Investigation 2:</u> Working with 100 – 6 Lessons <u>Investigation 3:</u> Adding to and Subtracting from 100 – 6 Lessons <u>Investigation 4:</u> Making 100 with Equal Groups – 4 Lessons <u>Investigation 5A:</u> Working with 3-Digit Numbers – 5 Lessons (5 additional lessons -- Sessions 5A.1 – 5A.5)	November 14 – December 20	2.OA.1, 2.OA.2 2.NBT.1, 2.NBT.2 2.NBT.3, 2.NBT.4 2.NBT.5, 2.NBT.6 2.NBT.7, 2.NBT.8 2.NBT.9 2.MD.8
	<b>Unit 8 – Partners, Teams, and Paper Clips</b> <i>Addition, Subtraction, and the Number System 4</i> <b>(20 Lessons, 21 Days)</b> <u>Investigation 1:</u> Adding Even and Odd Numbers – 4 Lessons <u>Investigation 2:</u> Remaining Addition Combinations – 2 Lessons <u>Investigation 3:</u> Subtraction – 5 Lessons <u>Investigation 4:</u> Addition – 4 Lessons (Omit Session 4.5) <u>Investigation 5A:</u> Adding and Subtracting 3-Digit Numbers – 5 Lessons (5 additional lessons -- Sessions 5A.1 – 5A.5)	January 3 – February 3     *Continue unit into Quarter 3	2.OA.1, 2.OA.2 2.OA.3 2.NBT.1, 2.NBT.3 2.NBT.4, 2.NBT.5 2.NBT.6, 2.NBT.7 2.NBT.8, 2.NBT.9

\*Place Value is a critical area in second grade. Therefore, the pacing guide has been adjusted to allow more time to develop place value understanding and fluency with addition and subtraction. As a result, the Investigations units have been reordered. This will alter the order of the Classroom Routines (particularly the lessons related to time) as well as the Daily Practice and Homework pages. Please adjust according to the needs of your students.

\*Standard 2.MD.7 (Time) should be addressed throughout the year during lessons and Classroom Routines.

Quarter 3	<b>DPI Unit – Second Grade Adding and Subtracting</b> <i>Addition, Subtraction, and Place Value with Larger Numbers</i> <b>(11 Lessons, 17 Days)</b> <b>Part Two:</b> Adding and Subtracting Two-Digit Numbers – 4 Lessons <b>Part Three:</b> Exploring Three-Digit Numbers – 7 Lessons *Place Value Unit: <a href="http://maccss.ncdpi.wikispaces.net/Second+Grade">http://maccss.ncdpi.wikispaces.net/Second+Grade</a> *Use this unit along with other supplemental resources to address addition, subtraction, and place value with larger numbers.	February 6 – February 28	2.OA.1 2.NBT.1, 2.NBT.2 2.NBT.3, 2.NBT.4 2.NBT.5, 2.NBT.6 2.NBT.7, 2.NBT.8 2.NBT.9
	<b>Unit 4 – Pockets, Teeth, and Favorite Things</b> <i>Data Analysis</i> <b>(10 Lessons, 10 Days)</b> <b>Investigation 1:</b> Working With Categorical Data – 3 Lessons (Teach Sessions 1.1, 1.2 - 1.3A*, 1.4A: Bar Graphs) (*Combine Session 1.2 Activity 3 & Session 1.3A Activity 3) <b>Investigation 2:</b> Pocket and Teeth Data – 7 Lessons (Teach Sessions 2.1 – 2.6 and Session 2.8, Omit Session 2.7) *Additional lessons will be needed to address picture graphs (2.MD.10).	March 1 – March 14	2.MD.9 2.MD.10
	<b>Unit 2 – Shapes, Blocks, and Symmetry</b> <i>2-D and 3-D Geometry</i> <b>(10 Lessons, 12 Days)</b> <b>Investigation 1:</b> Features of 2-D and 3-D Shapes – 2 Lessons (Teach Sessions 1.1 – 1.2, Omit Sessions 1.3 – 1.5) <b>Investigation 2:</b> What is a Rectangle? – 8 Lessons (Teach Sessions 2.1 – 2.7, Combine Sessions 2.8 and 2.9) (End-of-Unit Assessment -- Session 2.10A) <b>Investigation 3:</b> Symmetry – Omit	March 15 – March 30	2.OA.4 2.G.1 2.G.2  2.OA.1 2.OA.2 2.NBT.2
Quarter 4	<b>Unit 7 – Parts of a Whole, Parts of a Group</b> <i>Fractions</i> <b>(7 Lessons, 10 Days)</b> <b>Investigation 1:</b> One Half – 2 Lessons (Teach Sessions 1.1 and 1.3, Omit Sessions 1.2 and 1.4) <b>Investigation 2:</b> Halves, Thirds, and Fourths – 6 Lessons (Add Session 2.3A: Parts of Circles, Omit Sessions 2.5 and 2.6) *Omit all activities involving set models (ex. balloons). Set models are not included in the second grade standards. *Additional Second Grade Fraction Unit: <a href="https://www.elementarymathematics.org/Grade_2_Unit_7_.html">https://www.elementarymathematics.org/Grade_2_Unit_7_.html</a>	April 3 – April 21	2.G.3
	<b>Unit 9 – Measuring Length and Time</b> <i>Measurement</i> <b>(14 Lessons, 20 Days)</b> <b>Investigation 1:</b> Different Units, Different Counts – 6 Lessons <b>Investigation 2:</b> Creating a Measuring Tool – 3 Lessons <b>Investigation 3:</b> Two Measuring Systems – 5 Lessons (End-of-Unit Assessment -- Session 3.6A) <b>Investigation 4:</b> Representing Time – Omit *Time is addressed during lessons and Classroom Routines throughout the year. *Incorporate the use of line plots to display measurement data.	April 24 – May 19	2.MD.1, 2.MD.2 2.MD.3, 2.MD.4 2.MD.5, 2.MD.6 2.MD.7, 2.MD.9
	<b>Review &amp; End of Year Assessments</b>  <b>Unit 5 – How Many Floors? How Many Rooms?</b> (optional) <i>Patterns, Functions, and Change</i> <b>(11 Lessons, 14 Days)</b>	May 22 – June 9	2.NBT.2 2.OA.3 2.OA.4